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hpARK2	1	10	20	30	40	50
mpARK2	1	MIVFVRFNSS	HGFPVEVDSD	TSIFOLKEVV	AKRQGVPAQ	LRVIFAGKEL
		Y	L	L		
hpARK2	51	60	70	80	90	100
mpARK2	51	RNDWTVQNCD	LDQQSIVHIV	QRPWRKGOEM	NATGGDDPRN	AAGCEREPO
		P.HL	E	R.RSH.T	.S...E.QS	TSE.SIW.SR
hpARK2	101	110	120	130	140	150
mpARK2	101	SLTRVDLSS	VLPGDSVGLA	VILHTDSRKD	SPPAGSPAGR	SIYNSFYVYC
		.....H	T...V	...D...KR.	.EA.RG.V-K	PT.....FI..
hpARK2	151	160	170	180	190	200
mpARK2	151	KGPCQORVQPG	KLRVQCSTCR	QATLTLTQGP	SCWDDVLIPN	RMSGECQSPH
		HK.....	G...K	.....A...	.....	.....D
hpARK2	201	210	220	230	240	250
mpARK2	201	CPGTSAEFF	KCGAHPSTDK	ETPVALHLIA	TNSRNITCIT	CTDVRSPVLV
		...R.....	.....	D.S...N..T	S.R.S.P..A	.....
hpARK2	251	260	270	280	290	300
mpARK2	251	FQCNSRHVIC	LDCFHLYCVT	RLNDRQFVHD	PQLGYSLPCV	AGCPNSLIKE
		...H.....	.....	.....	A.....	.....
hpARK2	301	310	320	330	340	350
mpARK2	301	LHHFRILGEE	QYNRYQQYGA	EECVLQMGV	LCPRPGCGAG	LLPEPDQRKV
		.....	T.....	.....	.....	...QG....
hpARK2	351	360	370	380	390	400
mpARK2	351	TCEGNGGLGC	GFAFCRECKE	AYHEGEC SAV	FEASGTTQA	YRVDERAEEQ
		.....	...V...D...	...D.D.DSL	L.P..A.S..	...K.....
hpARK2	401	410	420	430	440	450
mpARK2	401	ARWEAASKET	IKKTTKPCPR	CHVPVEKNGG	CMHMKCPQPQ	CRLEWCWNCG
		...E.....	N.I.....K.....
hpARK2	451	460	470	480	490	500
mpARK2	451	CEWNRVCMGD	HWFDV*
		...A.....

Fig. 1

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hPARK2	1	10	20	30	40	50	
mPARK2	1	CT.A.CGAGG	GAAGGGG	GA	GG	TT	CCAGGAGAC
hPARK2	51	CGCTGGTGGG	AGGCGGG-C	TGGCGCCGCT	ATGACTAA	ATGACTAA	CCAGGAGAC
mPARK2	51	CGCTGGTGGG	AGGCGGG-C	TGGCGCCGCT	ATGACTAA	ATGACTAA	CCAGGAGAC
hPARK2	101	GGCCCCGACG	CGCCACCTAC	CCAGTGACCA	TGATAGTGT	TGATAGTGT	GCCTGTTCTT
mPARK2	101	GGCCCCGACG	CGCCACCTAC	CCAGTGACCA	TGATAGTGT	TGATAGTGT	GCCTGTTCTT
hPARK2	151	AACTCCAGCC	ATGGTTTCCC	AGTGGAGGTC	GATTCTGACA	CCAGCATCTT	GCCTGTTCTT
mPARK2	151	AACTCCAGCC	ATGGTTTCCC	AGTGGAGGTC	GATTCTGACA	CCAGCATCTT	GCCTGTTCTT
hPARK2	201	CCAGCTCAAG	GAGGTGGTTG	CTAAGCGACA	GGGGGTTCCG	GCTGACCCAGT	GCCTGTTCTT
mPARK2	201	CCAGCTCAAG	GAGGTGGTTG	CTAAGCGACA	GGGGGTTCCG	GCTGACCCAGT	GCCTGTTCTT
hPARK2	251	TGCGTGTGAT	TTTCGCAGGG	AAGGAGCTGA	GGAATGACTG	GACTGTGCAG	GCCTGTTCTT
mPARK2	251	TGCGTGTGAT	TTTCGCAGGG	AAGGAGCTGA	GGAATGACTG	GACTGTGCAG	GCCTGTTCTT
hPARK2	301	AATTGTGACC	TGGATCAGCA	GAGCATTGTT	CACATTGTGC	AGAGACCCGTG	GCCTGTTCTT
mPARK2	301	AATTGTGACC	TGGATCAGCA	GAGCATTGTT	CACATTGTGC	AGAGACCCGTG	GCCTGTTCTT
hPARK2	351	GAGAAAGGT	CAAGAAATGA	ATGCAACTGG	AGGCGACGAC	CCCAGAAACG	GCCTGTTCTT
mPARK2	351	GAGAAAGGT	CAAGAAATGA	ATGCAACTGG	AGGCGACGAC	CCCAGAAACG	GCCTGTTCTT
hPARK2	401	CGGCGGGAGG	CTGTGAGCGG	GAGCCCCAGA	GCTTGACTCG	GGTGGACCTC	GCCTGTTCTT
mPARK2	401	CGGCGGGAGG	CTGTGAGCGG	GAGCCCCAGA	GCTTGACTCG	GGTGGACCTC	GCCTGTTCTT
hPARK2	451	AGCAGCTCAG	TCCTCCCAGG	AGACTCTGTG	GGGCTGGCTG	TCATTCTGCA	GCCTGTTCTT
mPARK2	451	AGCAGCTCAG	TCCTCCCAGG	AGACTCTGTG	GGGCTGGCTG	TCATTCTGCA	GCCTGTTCTT
hPARK2	501	CACTGACAGC	AGGAAGGACT	CACCACCCAGC	TGGAAGTCCA	GCAGGTAGAT	GCCTGTTCTT
mPARK2	501	CACTGACAGC	AGGAAGGACT	CACCACCCAGC	TGGAAGTCCA	GCAGGTAGAT	GCCTGTTCTT
hPARK2	551	CAATCTACAA	CAGCTTTTAT	GTGTATTGCA	AAGGCCCTCTG	TCAAAGAGTG	GCCTGTTCTT
mPARK2	551	CAATCTACAA	CAGCTTTTAT	GTGTATTGCA	AAGGCCCTCTG	TCAAAGAGTG	GCCTGTTCTT
hPARK2	601	CAGCCGGGAA	AACTCAGGGT	ACAGTGACGC	ACCTGCAGGC	AGGCAACGCT	GCCTGTTCTT
mPARK2	601	CAGCCGGGAA	AACTCAGGGT	ACAGTGACGC	ACCTGCAGGC	AGGCAACGCT	GCCTGTTCTT
hPARK2	651	CACCTTGACC	CAGGTCCCAT	CTTGCTGGGA	TGATGTTTGA	ATTCCAAACC	GCCTGTTCTT
mPARK2	651	CACCTTGACC	CAGGTCCCAT	CTTGCTGGGA	TGATGTTTGA	ATTCCAAACC	GCCTGTTCTT
hPARK2	701	GGATGAGTGG	TGAATGCCAA	TCCCCACACT	GCCCTGGGAC	TAGTGCAGAA	GCCTGTTCTT
mPARK2	701	GGATGAGTGG	TGAATGCCAA	TCCCCACACT	GCCCTGGGAC	TAGTGCAGAA	GCCTGTTCTT
hPARK2	751	TTTTTCTTTA	AATGTGGAGC	ACACCCACCC	TCTGACAAGG	AAACACCAGT	GCCTGTTCTT
mPARK2	751	TTTTTCTTTA	AATGTGGAGC	ACACCCACCC	TCTGACAAGG	AAACACCAGT	GCCTGTTCTT

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hPARK2	801	AGCTTTGCAC	810	CTGATCGCAA	820	CAAAATAGTCG	830	GAACATCACT	840	TGCATTACGT	850
mPark2	801	.....A..	860	.....A.C.	870	GC..C..G..	880	C.G.....C..	890	.....AG...	850
hPARK2	851	GCACAGACGT	910	CAGGAGCCCC	920	GTCCTGGTTT	930	TCCAGTGCAA	940	CTCCCGCCAC	900
mPark2	851	.....T..	910	.....T..	920	.....C..	930	.....T..	940	.....CA...T..	900
hPARK2	901	GTGATTGCT	960	TAGACTGTTT	970	CCACTTATAC	980	TGTGTGACAA	990	GACTCAATGA	950
mPark2	901	.....C..T..	960	.....G.....	970	.....G..T..	980	.....C.....	990	.....C.....	950
hPARK2	951	TCGGCAGTTT	1010	GTTACAGACC	1020	CTCAACTTGG	1030	CTACTCCCTG	1040	CCTTGTGTGG	1000
mPark2	951	.....	1010	.....TG	1020	.....	1030	.....	1040	.....G.....A..	1000
hPARK2	1001	CTGGCTGTCC	1060	CAACTCCTTG	1070	ATTAAAGAGC	1080	TCCATCACTT	1090	CAGGATTCTG	1050
mPark2	1001	.....	1060	.....C..	1070	.....	1080	.....C..T..	1090	.....C..T..	1050
hPARK2	1051	GGAGAAGAGC	1110	AGTACAACCG	1120	GTACCAGCAG	1130	TATGTTGCAG	1140	AGGAGTGTGT	1100
mPark2	1051	.....	1110	.....CTA..	1120	.....	1130	.....G..C..	1140	.....A..C..	1100
hPARK2	1101	CCTGCAGATG	1160	GGGGCGGTGT	1170	TATGCCCCCG	1180	CCCTGGCTGT	1190	GGAGCGGGGC	1150
mPark2	1101	G.....A..	1160	.....A..T..C	1170	.....G.....	1180	T.....	1190	.....T..A..	1150
hPARK2	1151	TGCTGCCGGA	1210	GCCTGACCAG	1220	AGGAAAGTCA	1230	CCTGCGAAGG	1240	GGGCAATGGC	1200
mPark2	1151	.....A..T..	1210	A..AG..G..	1220	.....	1230	.....	1240	.....C.....	1200
hPARK2	1201	CTGGGCTGTG	1260	GGTTTGCCTT	1270	CTGCCGGGAA	1280	TGTAAGAAG	1290	CGTACCATGA	1250
mPark2	1201	.....C..	1260	.....TT..	1270	.....C.....	1280	.....G.....	1290	.....A.....	1250
hPARK2	1251	AGGGAGTGC	1310	AGTGCCGTAT	1320	TTGAAGCCTC	1330	AGGAACAAC	1340	ACTCAGGCCT	1300
mPark2	1251	.....T...	1310	GACT.AC.GC	1320	.....C.....	1330	.....G..C..	1340	T.....	1300
hPARK2	1301	ACAGAGTCGA	1360	TGAAAGAGCC	1370	GCCGAGCAGG	1380	CTCGTTGGA	1390	AGCAGCCTCC	1350
mPark2	1301	.....G..G..	1360	CA.....	1370	.....T.....A..	1380	.....C.....	1390	G..AG.....	1350
hPARK2	1351	AAAGAAACCA	1410	TCAAGAAAC	1420	CACCAAGCCC	1430	TGTCCCCGCT	1440	GCCATGTACC	1400
mPark2	1351	.....G.....	1410	.....G.....	1420	.....T.....	1430	.....T.....	1440	.....A.C..G..	1400
hPARK2	1401	AGTGGAAAAA	1460	AATGGAGGCT	1470	GCATGCACAT	1480	GAAGTGTCCG	1490	CAGCCCCCAGT	1450
mPark2	1401	A..T.....	1460	.....C.....A..	1470	.....T.....	1480	.....T.....	1490	.....	1450
hPARK2	1451	GCAGGCTCGA	1510	GTGGTGTCTG	1520	AACTGTGGCT	1530	GCGAGTGGAA	1540	CCGCGTCTGC	1500
mPark2	1451	.....A..G..	1510	.....	1520	.....	1530	T.....	1540	.....A.C.....	1500
hPARK2	1501	ATGGGGGACC	1560	ACTGTTTCCA	1570	GGGCGGCCGG	1580	GGGCGGCCGG	1590	GCGCCCCATC	1550
mPark2	1501	.....A..T..	1560	.....T.....	1570	.....AG..	1580	A..AT..T..AC	1590	TT.G...TGG	1550
hPARK2	1551	GC-CACATCC	1600	TGGGGGAGCA	1610	TACCCAG--T	1620	GTCTACCTTC	1630	ATTT.....	1600
mPark2	1551	A.G....A..	1600	CAA..GAA..	1610	CT..G.AGA..	1620	TC.....	1630	C..A.....	1600

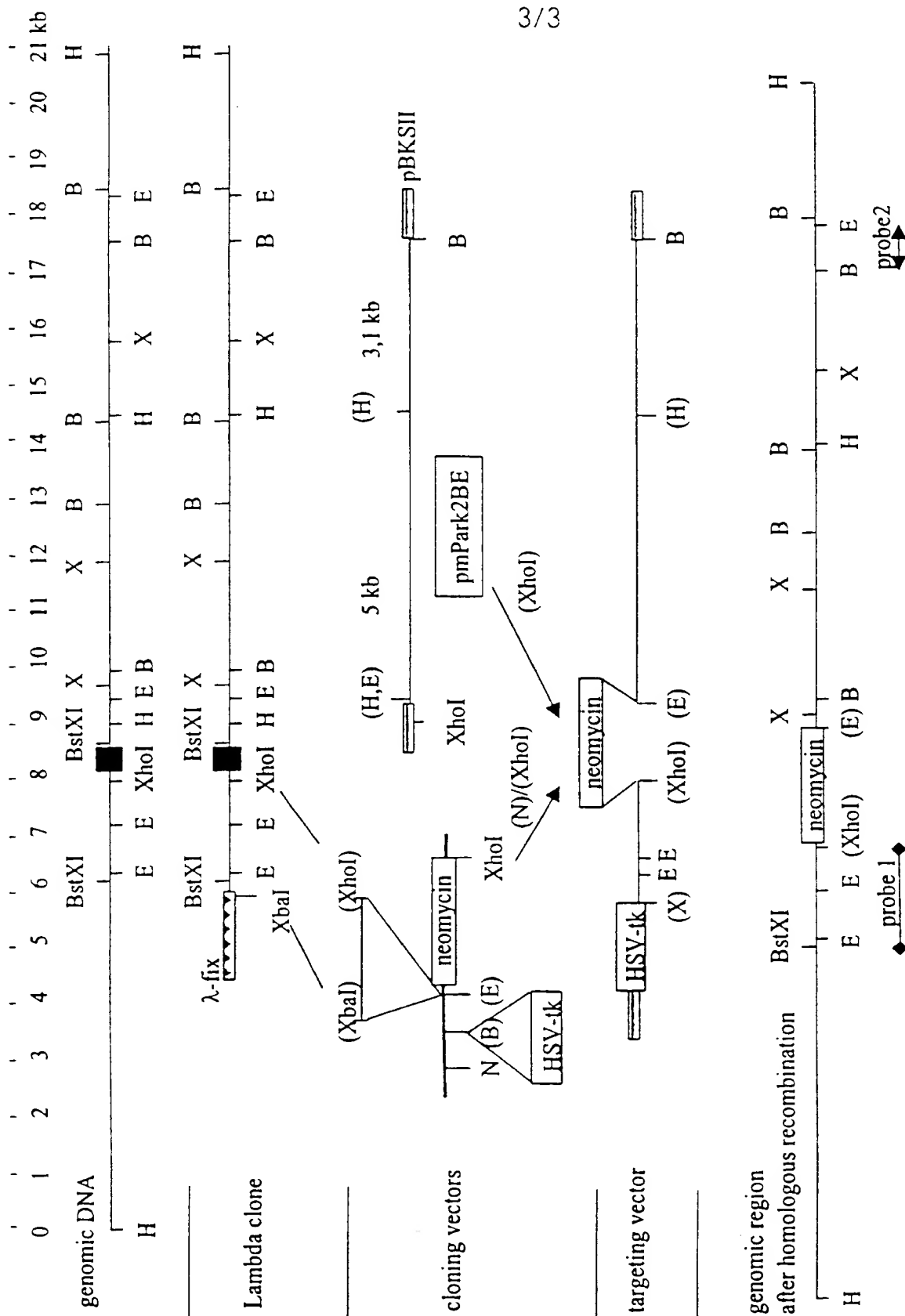


Fig 3